

FIG. 1

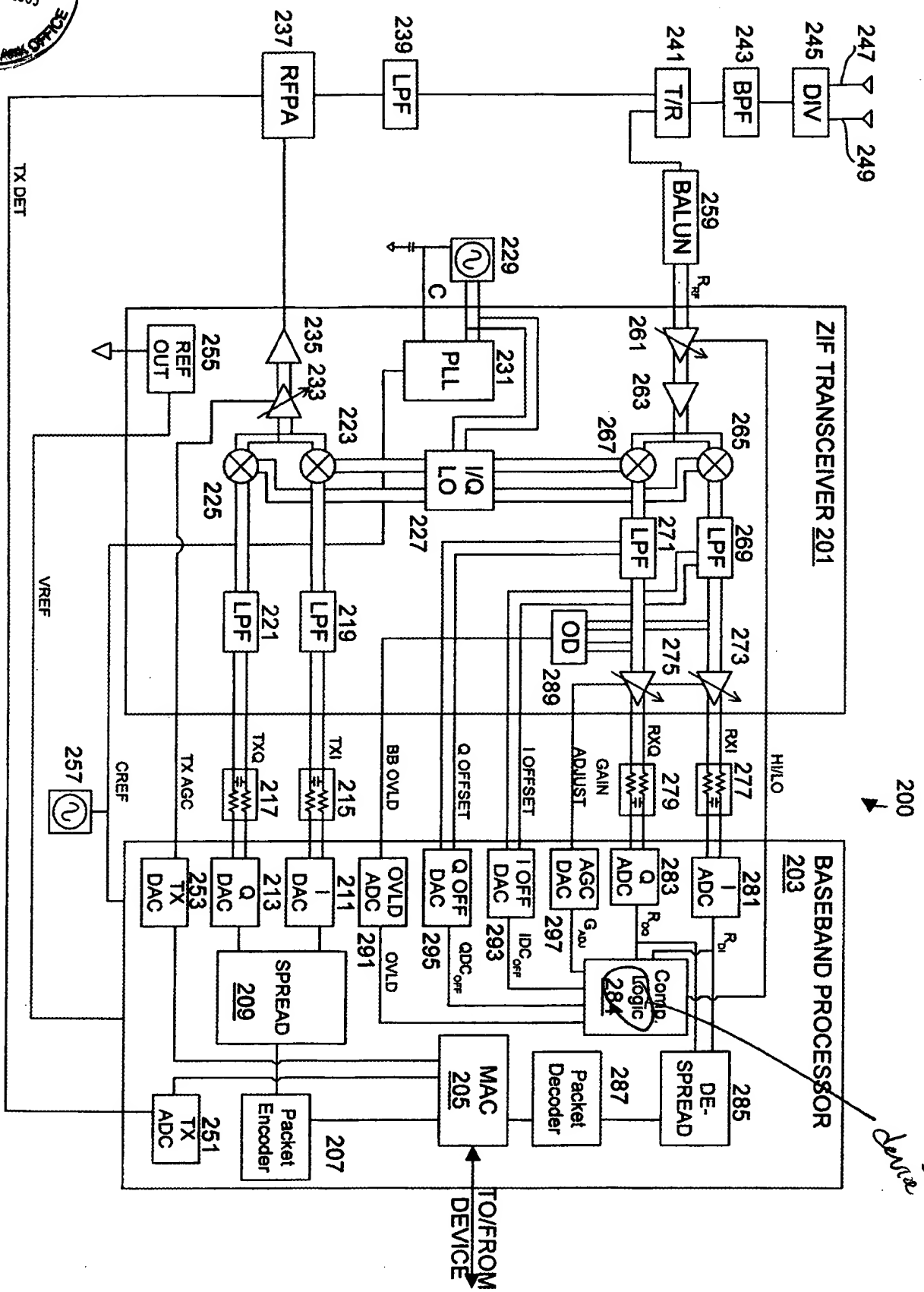


FIG. 2

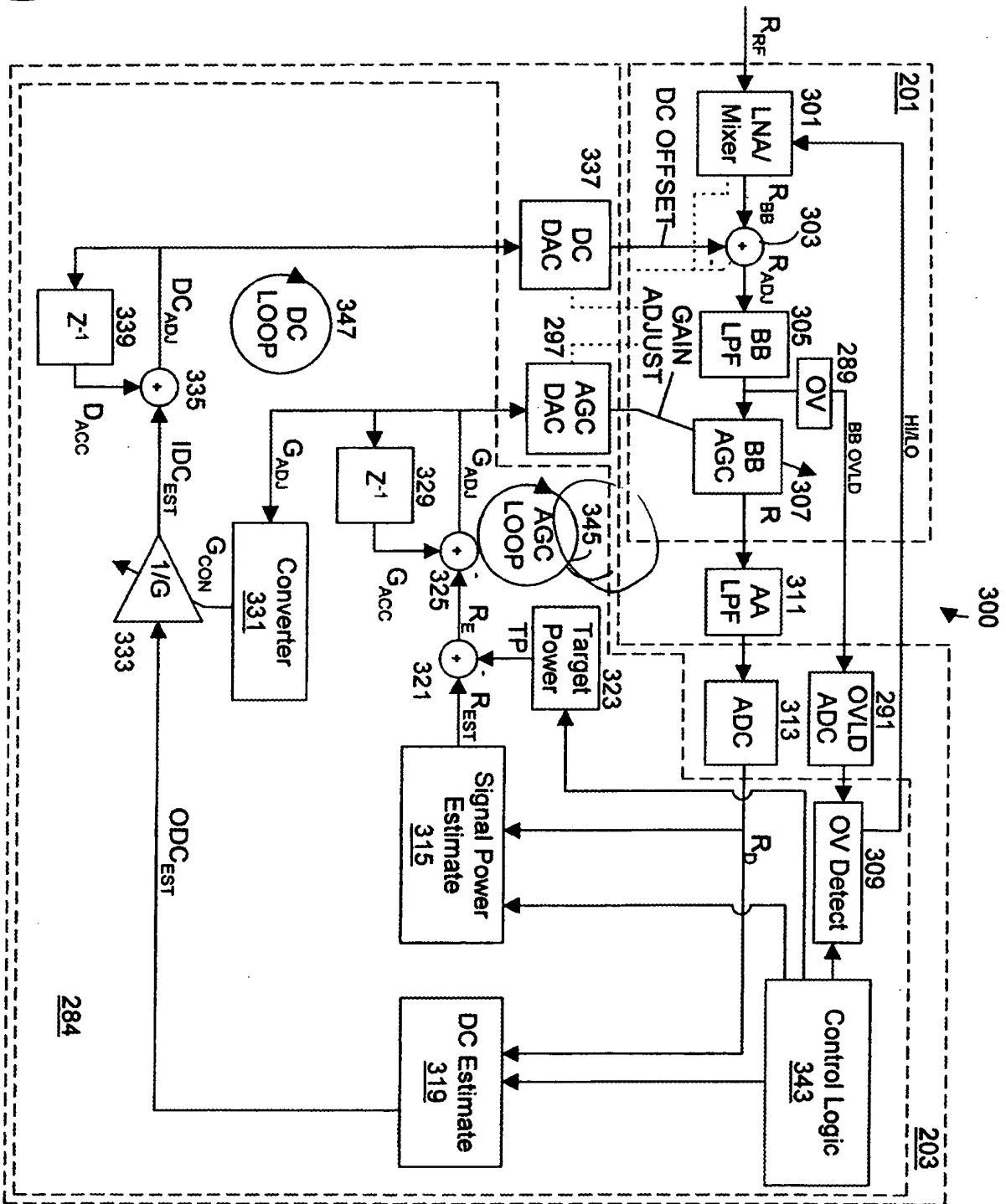


FIG. 3

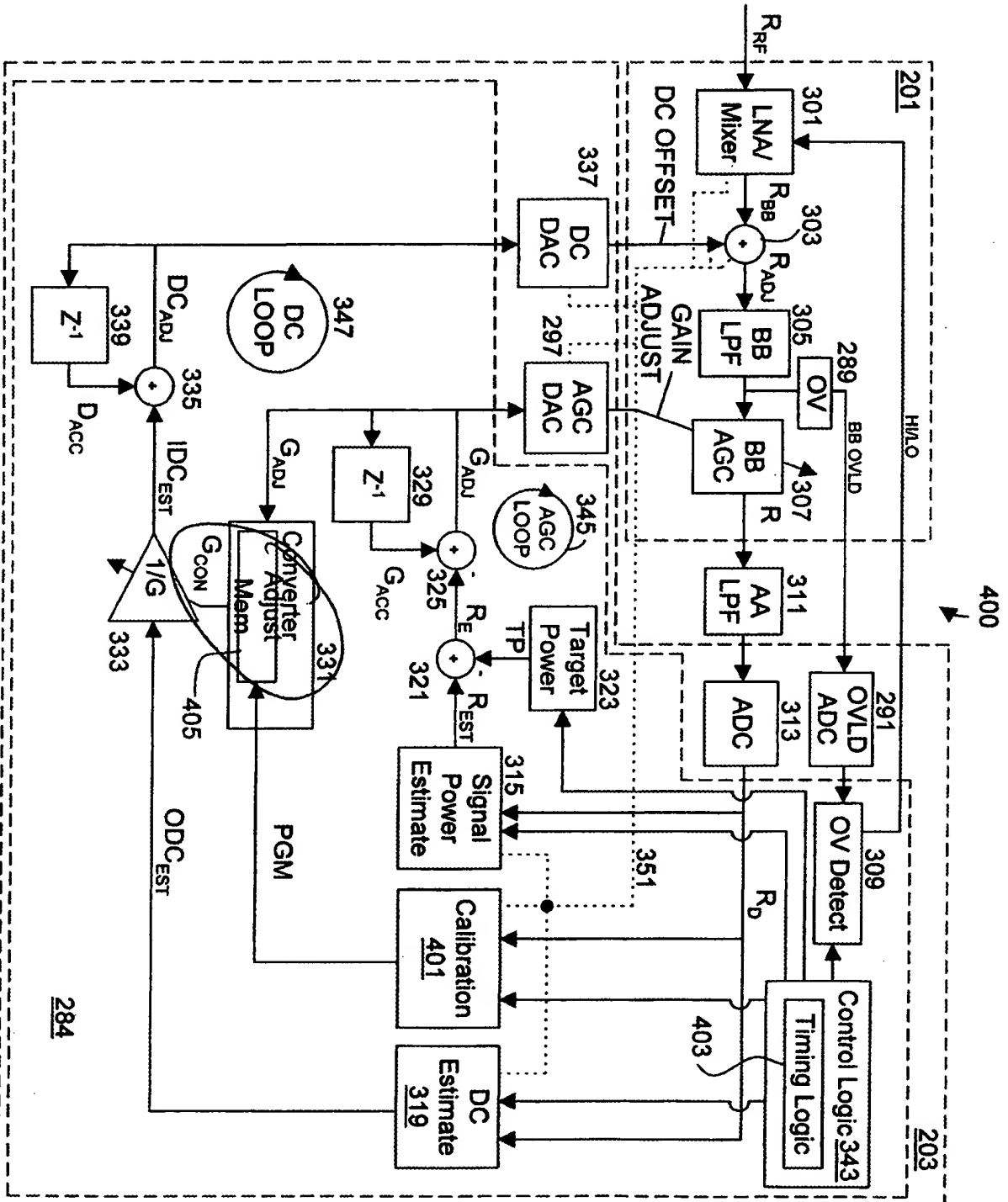
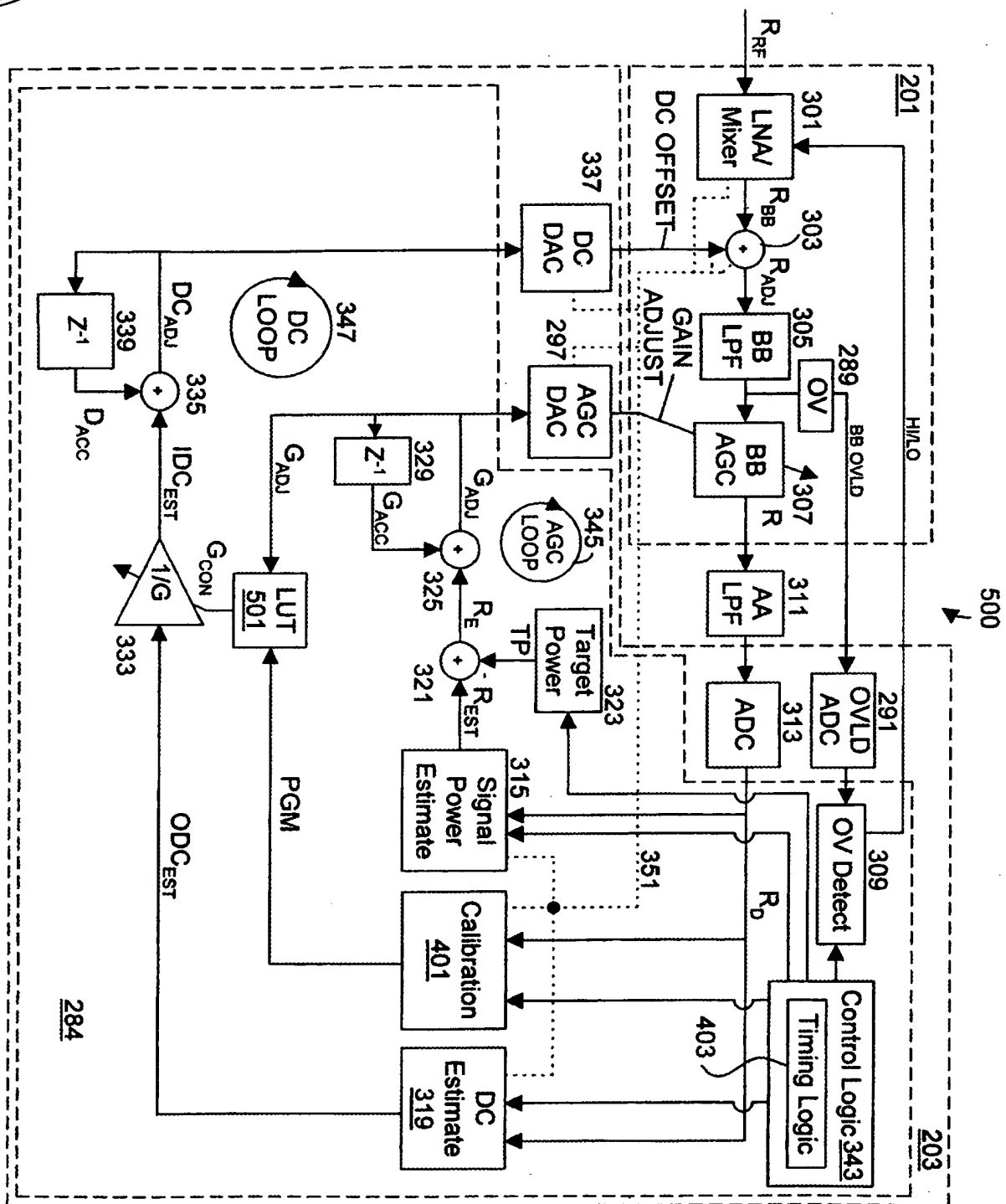


FIG. 4



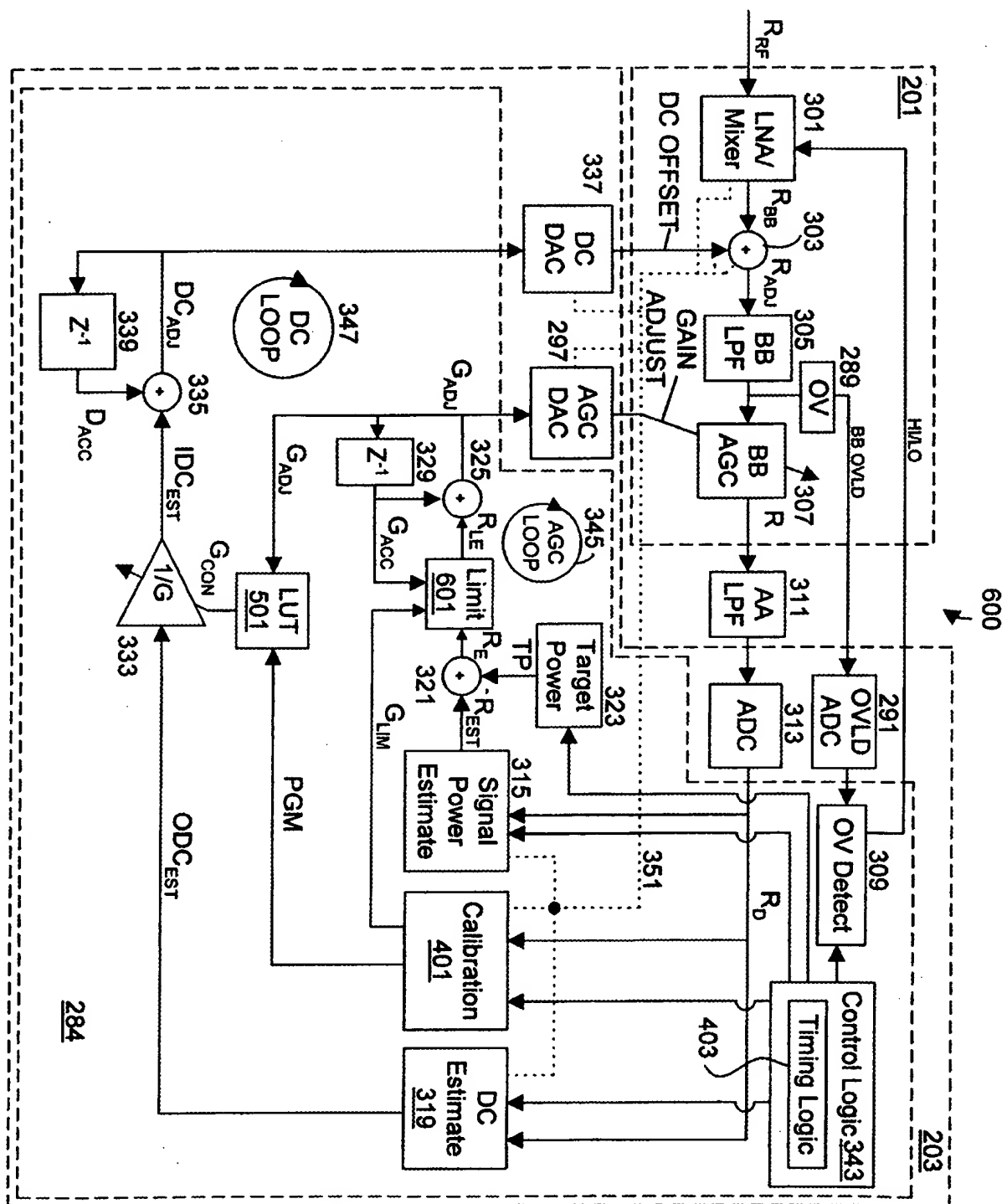


FIG. 6

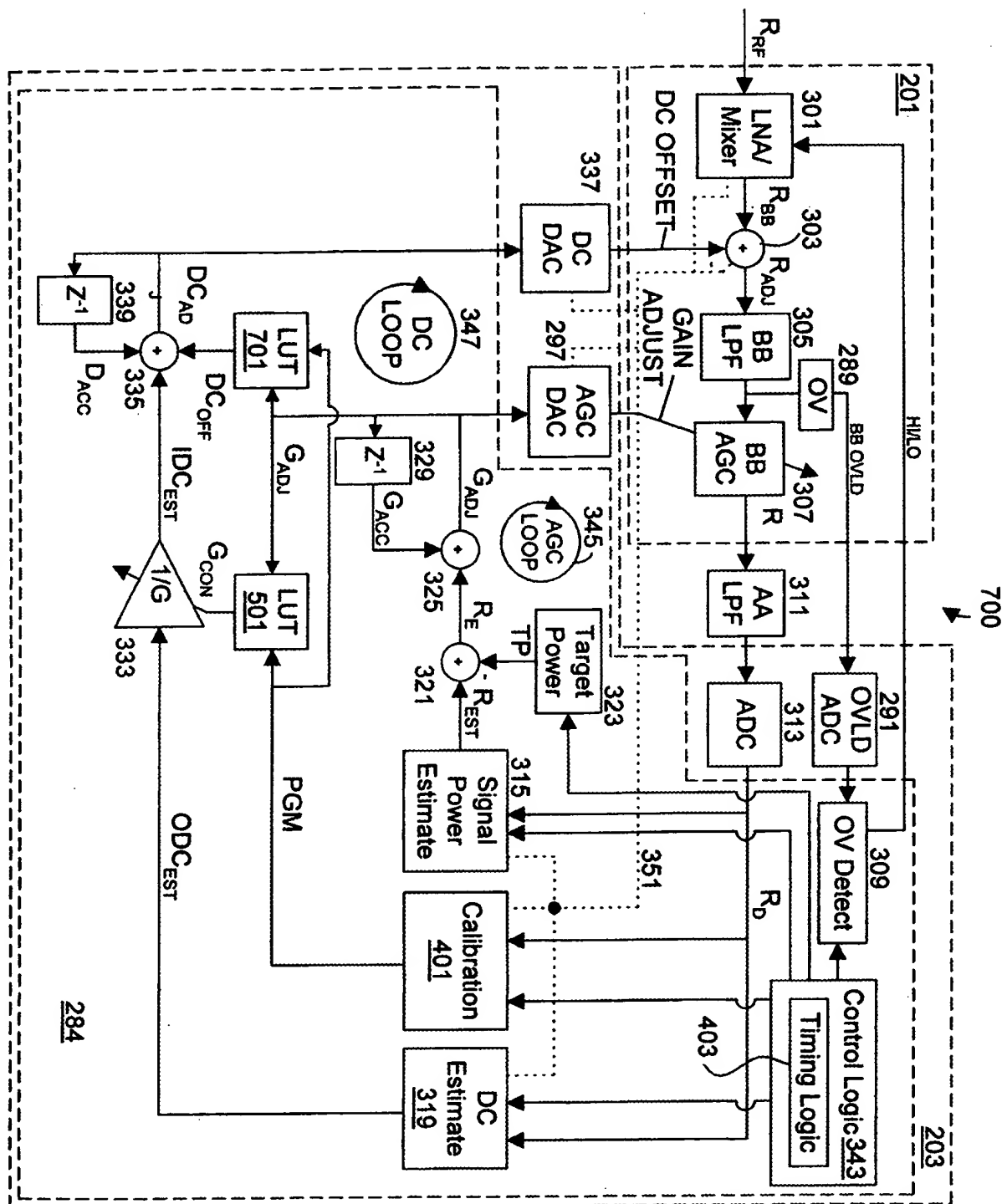
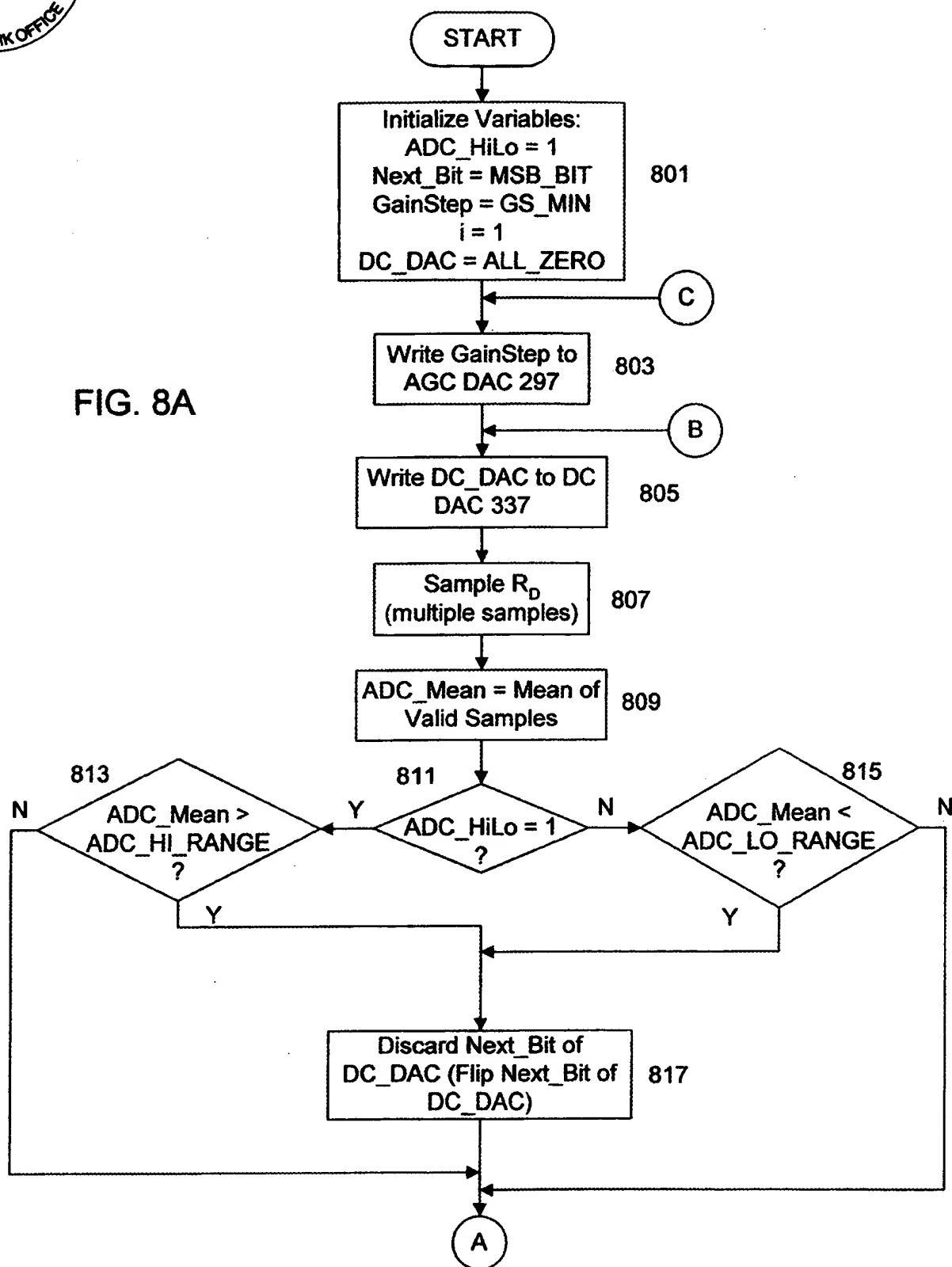


FIG. 8A



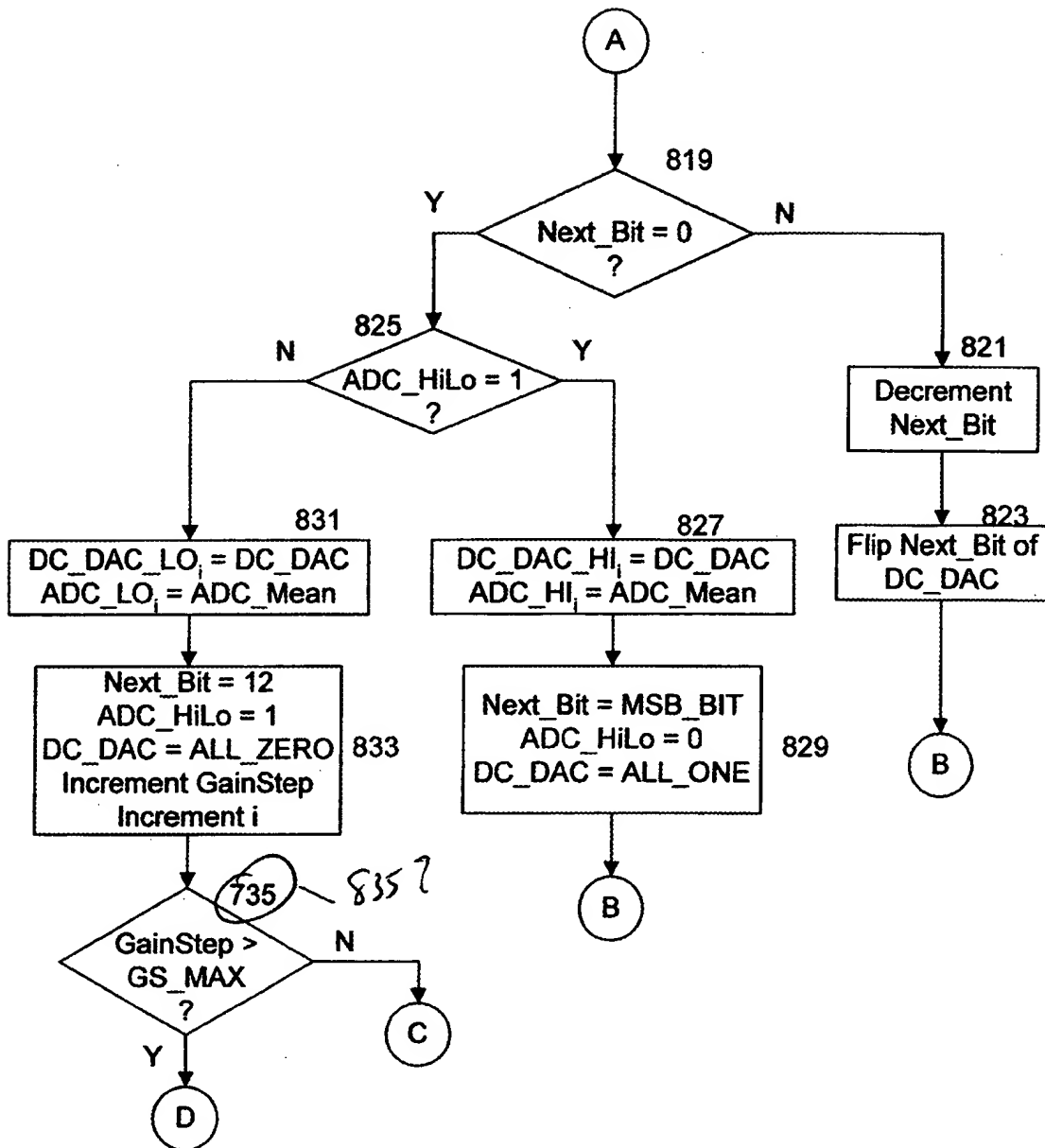


FIG. 8B

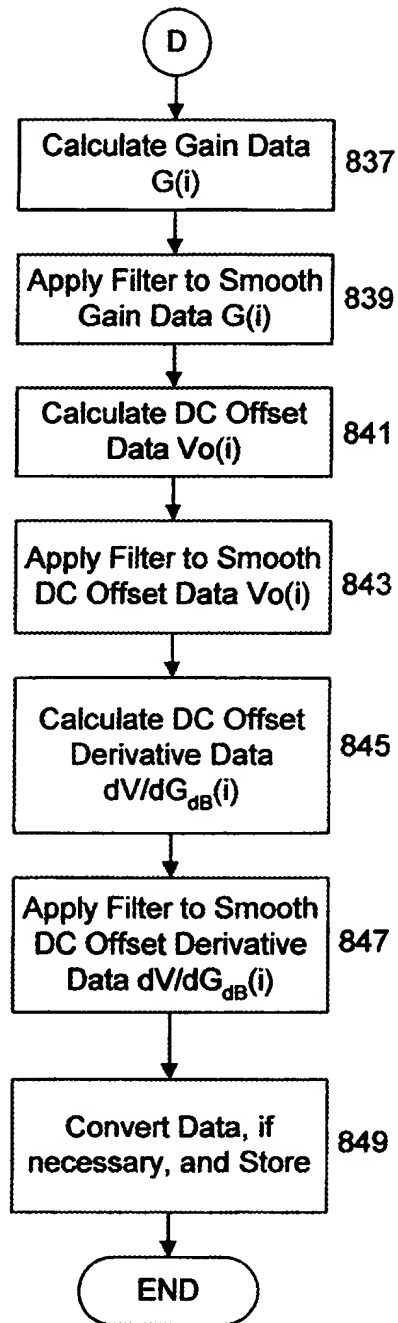


FIG. 8C





Critical Timelines and AGC / DC Settling Requirements

Scenario #1 - Normal Packet Onset

- Determined by short preamble timeline processing.

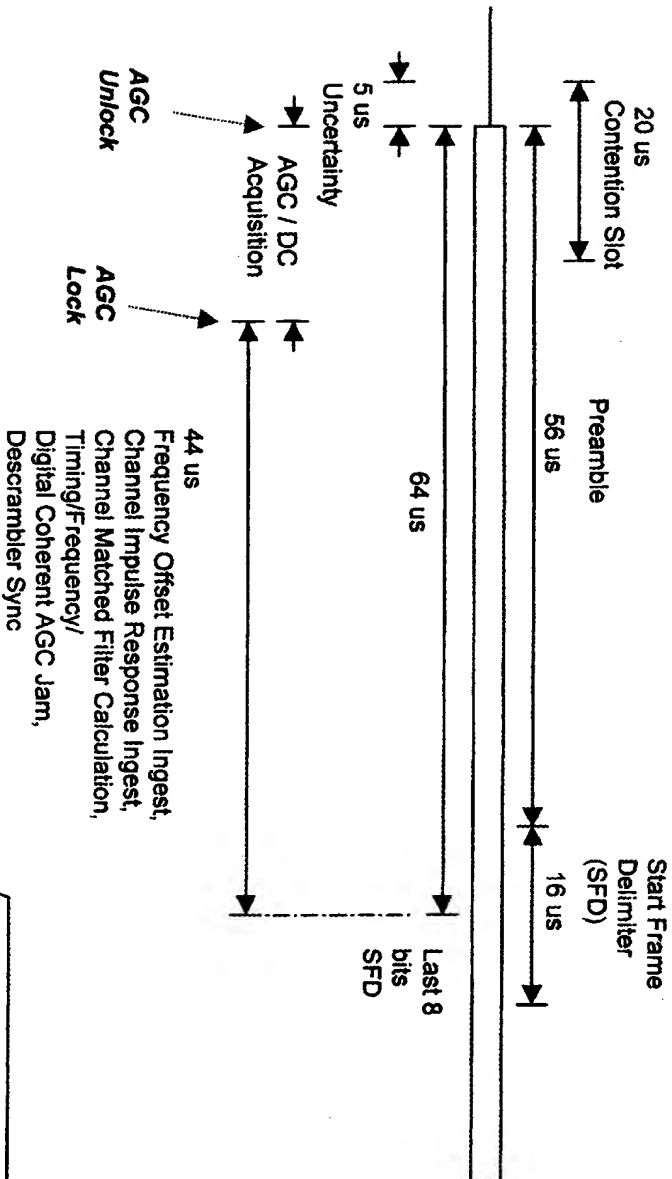


FIG. 9

Maximum time for AGC Acquisition
64 us - 44 us = 20 us
From Known DC at Noise Floor



Critical Timelines and AGC / DC Setting Requirements

Scenario #2 - End of TX/RX Packet Reacquisition of Noise Floor or CCA Busy (No ACK RX required)

- Determined by post packet recovery time for CCA. Determine presence of an Acknowledgement packet, but successful reception is not critical. Note: CCA can be pre-asserted until accurately determined in the subsequent slot.

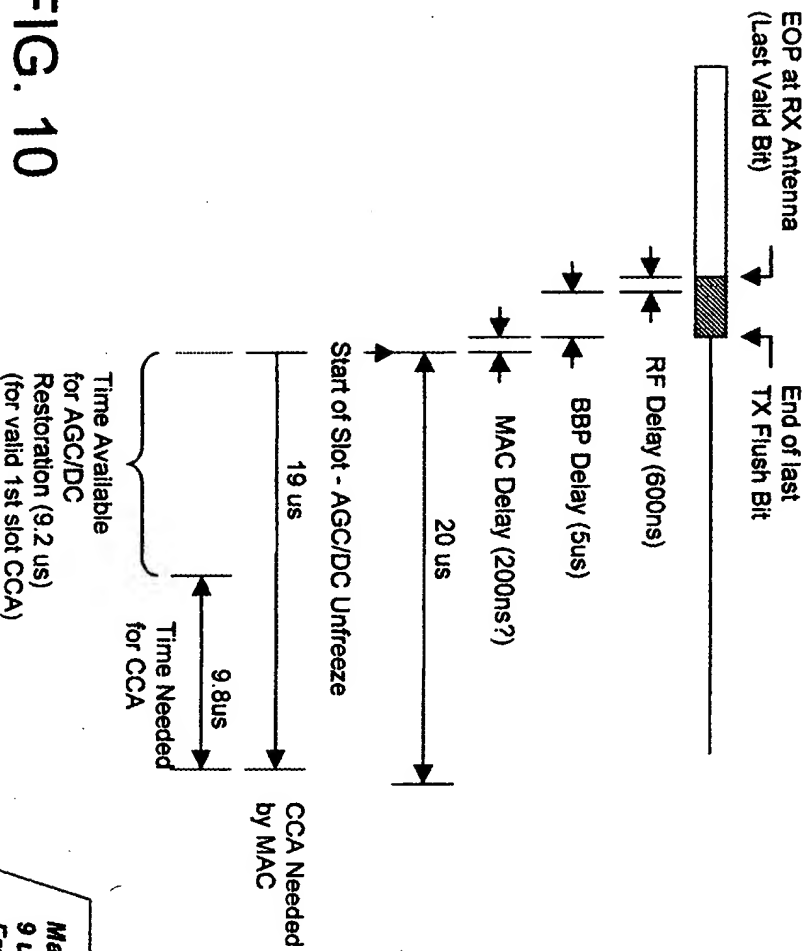


FIG. 10

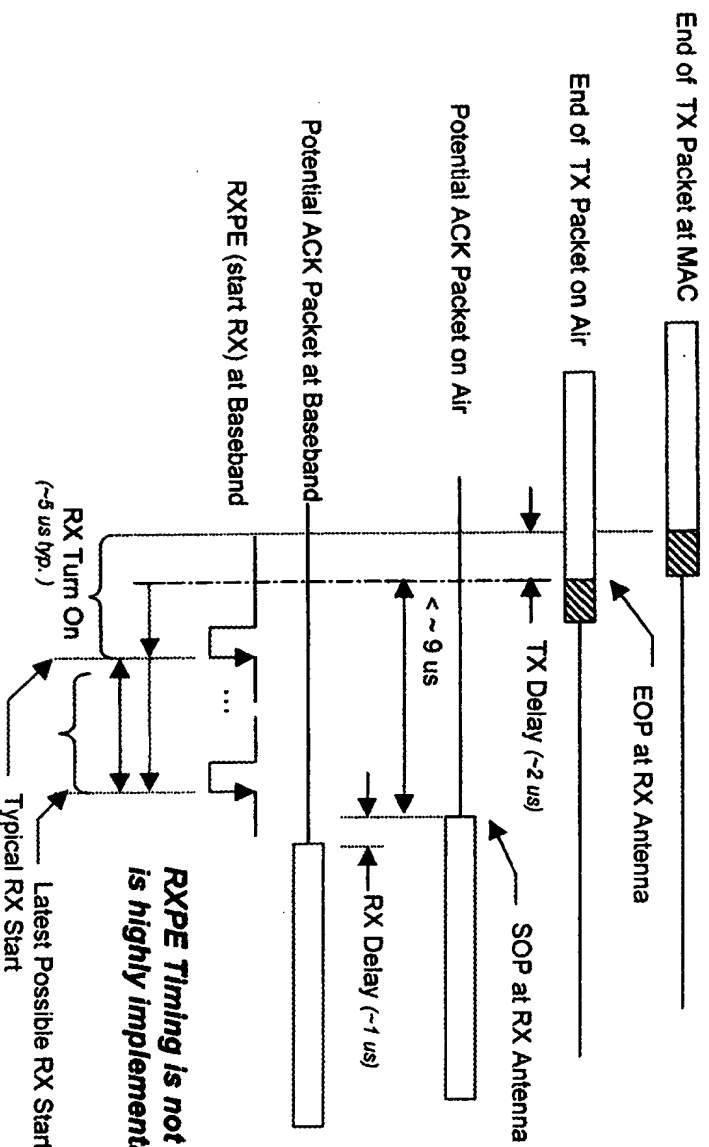
Maximum time for AGC Acquisition
9 us for 1st slot, 29 for second slot
From Known Gain and Unknown DC

Critical Timelines and AGC / DC Settling Requirements

Scenario # 3 - End of TX Packet Reacquisition of expected Acknowledgement Packet

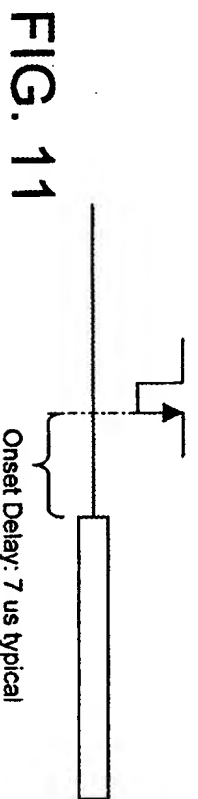
- Determined by post packet recovery time for CCA or RX of an ACK Packet. The AGC & DC loops should be stable prior to the onset of the acknowledgement packet. CCA is always pre-declared since there is an expected packet following.

Perspective relative to End of Packet "On the Air"



RXPE Timing is not exact and is highly implementation dependant!!

Perspective relative to RX Start (RXPE) at "Baseband"



Maximum time for AGC Acquisition
64 us - 44 us = 20 us
From Unknown Gain and Unknown DC

FIG. 11

AGC / DC Timeline Concept

CCA Priority End of Packet Scenario

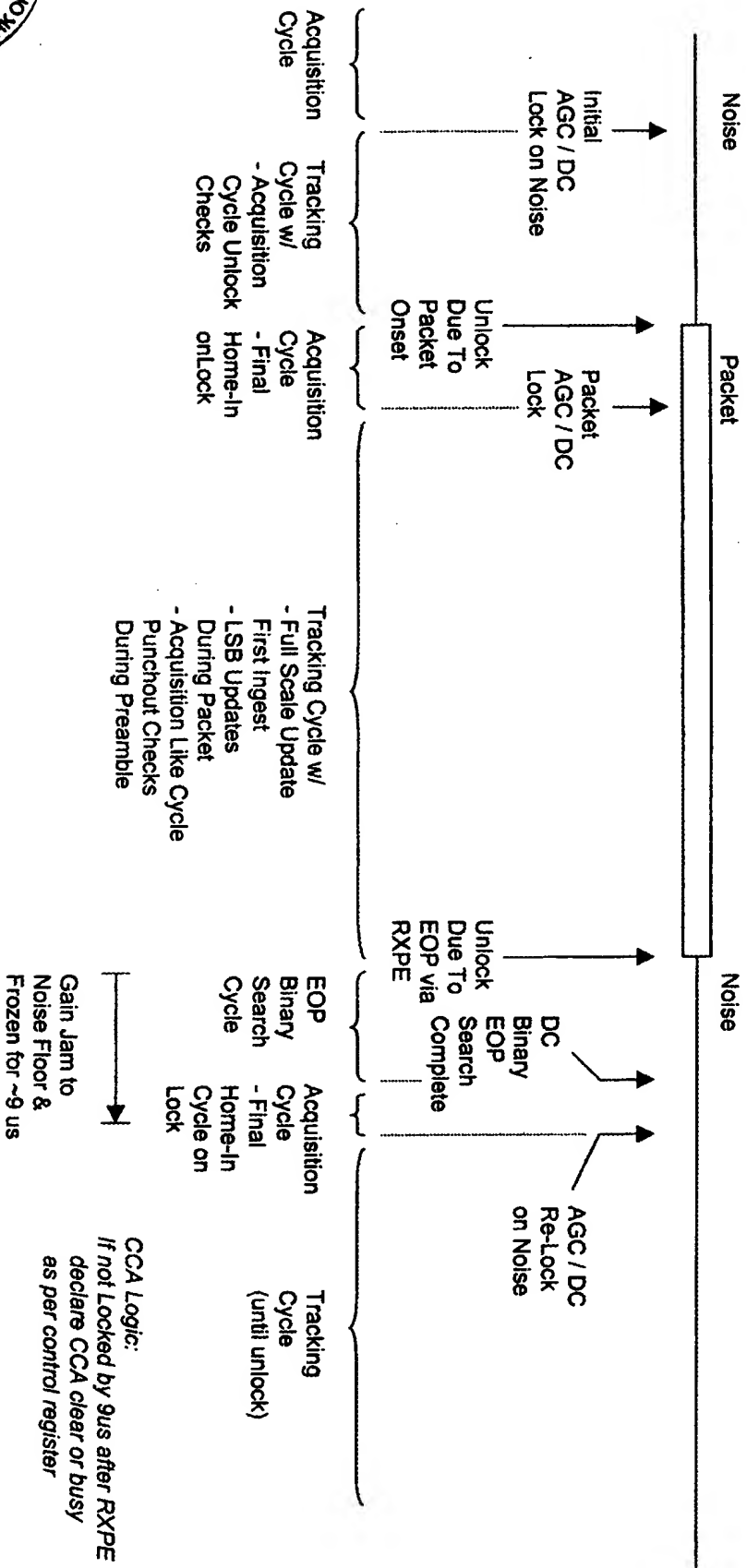


FIG. 12



AGC / DC Timeline Concept

ACK RX Priority End of Packet Scenario

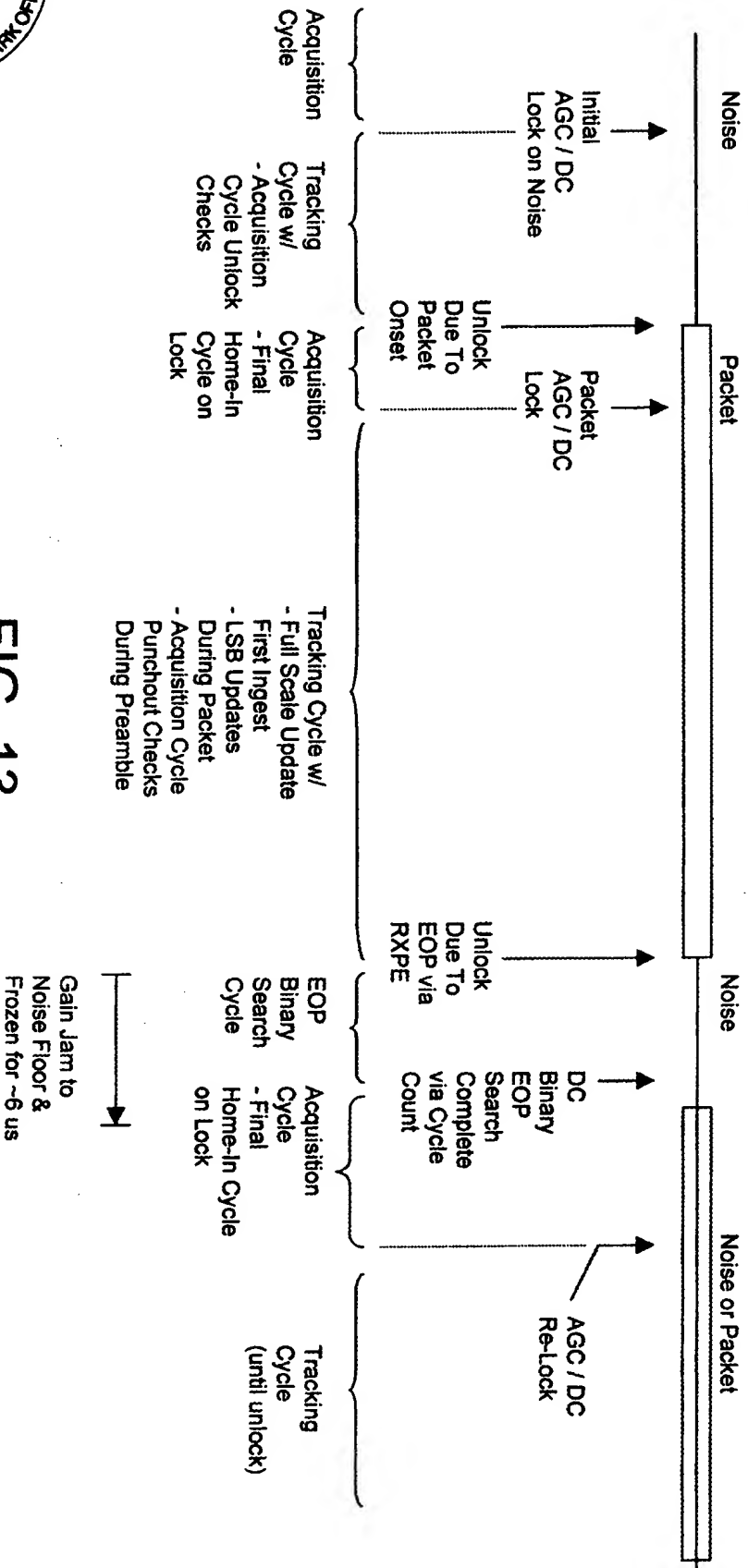


FIG. 13

